

Roger Cole

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Professional Experience

- Argonne National Laboratory (1971 - Present)

Project Leader, Engine and Emissions Research (1997 - Present): Planning, implementation, construction, and management of research projects, including evaluation and testing of advanced automotive technologies and single-cylinder diesel research engines.

Co-Principal Investigator, Energy Efficiency in Empowerment Zones and Other Large-Scale Community Development Projects (1994 - 1996): Planning, implementation, and management of a research program.

Principal Investigator, Industrial Cogeneration Program (1984 - 1987): Planning, implementation, and management of a research program.

Mechanical Engineer, Solar Energy Group (1978 - 1984): Research and development of solar-energy systems, including compound parabolic solar collectors and thermal energy storage.

Assistant Engineer, Solar Energy Group (1976 - 1978): Analysis of thermal and photovoltaic solar collectors and analysis of low-temperature solar power systems.

Assistant Engineer, Magnetohydrodynamics Group (1974 - 1976) and Post-Doctoral Appointee, Magnetohydrodynamics Group (1971 - 1974): Experimental and analytical research on a two-phase liquid-metal magnetohydrodynamic generator, including operation of the generator, collection of experimental data, development of a theoretical model, and development of computer programs.

- Bauer Engineering, Inc., Chicago (1970 - 1971)

Planning and design of aeration facilities for a wastewater treatment system, planning and design of machines for land disposal of treated wastewater, preparation of technical specifications for contract documents, and feasibility investigation of using treated wastewater for power plant cooling.

- Ford Motor Company, Dearborn, MI (1962 - 1965)

Engineer, Product Research (Summer, 1965) and Undergraduate Cooperative Trainee (1962 - 1965): Design of experimental automobile parts, study of exhaust emissions, design and construction of experimental torque-converter and hydrostatic transmissions, and computer simulation of gas-turbine engines.

Education

- Ph. D., Mechanical Engineering, Northwestern University (1971)
- BSME, Mechanical Engineering, Northwestern University (1965)

Professional Society Activities

- Member of ASME and SAE
- Author of more than 40 technical papers and book contributions.

Awards

- Two patents
- Argonne Pacesetter Award
- General Motors/EMD Achievement Recognition Award